Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

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1-4. (Canceled)

5.	(Currently Amended) The A magnetoresistive device according to claim 2	
whereincomprising:		
	a magnetoresistive element having two surfaces that face toward opposite	
directions and	two side portions that connect the two surfaces to each other;	
	two bias field applying layers that are located adjacent to the side portions of	
the magnetore	sistive element and apply a bias magnetic field to the magnetoresistive element:	
<u>and</u>		
	two electrode layers that feed a current used for signal detection to the	
magnetoresist	ive element, each of the electrode layers being adjacent to one of surfaces of	
each of the bia	as field applying layers, wherein:	
	at least one of the electrode layers overlaps one of the surfaces of the	
magnetoresist	ive element;	
	the magnetoresistive element incorporates: a nonmagnetic layer having two	
surfaces that f	ace toward opposite directions; a soft magnetic layer adjacent to one of the	
surfaces of the	e nonmagnetic layer; a pinned layer, located adjacent to the other one of the	
surfaces of the	e nonmagnetic layer, whose direction of magnetization is fixed; and an	
antiferromagn	etic layer located adjacent to one of surfaces of the pinned layer that is farther	
from the nonn	nagnetic layer, the antiferromagnetic layer fixing the direction of magnetization	
of the pinned	layer;	

the pinned layer includes a nonmagnetic spacer layer and two ferromagnetic layers that sandwich the spacer layer and have directions of magnetization fixed to opposite directions; a total length of regions of the two electrode layers that are laid over the one of the surfaces of the magnetoresistive element is smaller than 0.3 µm; and a space between the two electrode layers is equal to or smaller than approximately 0.6 µm. 6-9. (Canceled) 10. (Currently Amended) The A method according to claim 7 wherein of manufacturing a magnetoresistive device comprising: a magnetoresistive element having two surfaces that face toward opposite directions and two side portions that connect the two surfaces to each other; two bias field applying layers that are located adjacent to the side portions of the magnetoresistive element and apply a bias magnetic field to the magnetoresistive element; <u>and</u> two electrode layers that feed a current used for signal detection to the magnetoresistive element, each of the electrode layers being adjacent to one of surfaces of each of the bias field applying layers, the method including the steps of: forming the magnetoresistive element; forming the bias field applying layers; and forming the electrode layers, wherein: at least one of the electrode layers are located to overlap one of the surfaces of the magnetoresistive element;

layer having two surfaces that face toward opposite directions; a soft magnetic layer adjacent

the magnetoresistive element incorporates: a nonmagnetic



to one of the surfaces of the nonmagnetic layer; a pinned layer, located adjacent to the other		
one of the surfaces of the nonmagnetic layer, whose direction of magnetization is fixed; and		
an antiferromagnetic layer located adjacent to one of surfaces of the pinned layer that is		
farther from the nonmagnetic layer, the antiferromagnetic layer fixing the direction of		
magnetization of the pinned layer;		
the pinned layer includes a nonmagnetic spacer layer and two		
ferromagnetic layers that sandwich the spacer layer and have directions of magnetization		
fixed to opposite directions;		
a total length of regions of the two electrode layers that are laid		
over the one of the surfaces of the magnetoresistive element is smaller than 0.3 µm; and		
a space between the two electrode layers is equal to or smaller		
than approximately 0.6 μm.		
11-14. (Canceled)		
15. (Currently Amended) The A thin-film magnetic head according to claim 12		
whereincomprising:		
a magnetoresistive element having two surfaces that face toward opposite		
directions and two side portions that connect the two surfaces to each other;		
two bias field applying layers that are located adjacent to the side portions of		
the magnetoresistive element and apply a bias magnetic field to the magnetoresistive element;		
<u>and</u>		
two electrode layers that feed a current used for signal detection to the		
magnetoresistive element, each of the electrode layers being adjacent to one of surfaces of		
each of the bias field applying layers, wherein:		
at least one of the electrode layers overlaps one of the surfaces of the		
magnetoresistive element;		



the magnetoresistive element incorporates: a nonmagnetic layer having two surfaces that face toward opposite directions; a soft magnetic layer adjacent to one of the surfaces of the nonmagnetic layer; a pinned layer, located adjacent to the other one of the surfaces of the nonmagnetic layer, whose direction of magnetization is fixed; and an antiferromagnetic layer located adjacent to one of surfaces of the pinned layer that is farther from the nonmagnetic layer, the antiferromagnetic layer fixing the direction of magnetization of the pinned layer; the pinned layer includes a nonmagnetic spacer layer and two ferromagnetic layers that sandwich the spacer layer and have directions of magnetization fixed to opposite directions; a total length of regions of the two electrode layers that are laid over the one of the surfaces of the magnetoresistive element is smaller than 0.3 µm; and a space between the two electrode layers is equal to or smaller than approximately 0.6 µm. 16-19. (Canceled) 20. (Currently Amended) The A method according to claim 17 wherein of manufacturing a thin-film magnetic head comprising: a magnetoresistive element having two surfaces that face toward opposite directions and two side portions that connect the two surfaces to each other; two bias field applying layers that are located adjacent to the side portions of the magnetoresistive element and apply a bias magnetic field to the magnetoresistive element; and two electrode layers that feed a current used for signal detection to the magnetoresistive element, each of the electrode layers being adjacent to one of surfaces of each of the bias field applying layers, the method including the steps of:

forming the magnetoresistive element;
forming the bias field applying layers; and
forming the electrode layers, wherein:
at least one of the electrode layers are located to overlap one of
the surfaces of the magnetoresistive element;
the magnetoresistive element incorporates: a nonmagnetic layer
having two surfaces that face toward opposite directions; a soft magnetic layer adjacent to one
of the surfaces of the nonmagnetic layer; a pinned layer, located adjacent to the other one of
the surfaces of the nonmagnetic layer, whose direction of magnetization is fixed; and an
antiferromagnetic layer located adjacent to one of surfaces of the pinned layer that is farther
from the nonmagnetic layer, the antiferromagnetic layer fixing the direction of magnetization
of the pinned layer;
the pinned layer includes a nonmagnetic spacer layer and two
ferromagnetic layers that sandwich the spacer layer and have directions of magnetization
fixed to opposite directions;
a total length of regions of the two electrode layers that are laid
over the one of the surfaces of the magnetoresistive element is smaller than 0.3 µm; and
a space between the two electrode layers is equal to or smaller
than approximately 0.6 μm.

- 21. (New) The magnetoresistive device according to claim 5 wherein both of the two electrode layers overlap the one of the surfaces of the magnetoresistive element, and a length of the region of each of the two electrode layers that is laid over the one of the surfaces of the magnetoresistive element is smaller than $0.15 \, \mu m$.
- 22. (New) The magnetoresistive device according to claim 5 wherein the two bias field applying layers are located off one of the surfaces of the magnetoresistive element.

aring B 23. (New) The method according to claim 10 wherein both of the two electrode layers overlap the one of the surfaces of the magnetoresistive element, and a length of the region of each of the two electrode layers that is laid over the one of the surfaces of the magnetoresistive element is smaller than $0.15~\mu m$.

- 24. (New) The method according to claim 10 wherein the two bias field applying layers are located off one of the surfaces of the magnetoresistive element.
- 25. (New) The thin-film magnetic head according to claim 15 wherein both of the two electrode layers overlap the one of the surfaces of the magnetoresistive element, and a length of the region of each of the two electrode layers that is laid over the one of the surfaces of the magnetoresistive element is smaller than $0.15 \, \mu m$.
- 26. (New) The thin-film magnetic head according to claim 15 wherein the two bias field applying layers are located off one of the surfaces of the magnetoresistive element.
- 27. (New) The method according to claim 20 wherein both of the two electrode layers overlap the one of the surfaces of the magnetoresistive element, and a length of the region of each of the two electrode layers that is laid over the one of the surfaces of the magnetoresistive element is smaller than $0.15 \, \mu m$.
- 28. (New) The method according to claim 20 wherein the two bias field applying layers are located off one of the surfaces of the magnetoresistive element.